STIC Search Report

EIC 2100

USPTO

STIC Database Tracking Number: 132166

TO: James Tang Location: 5C18 Art Unit : 2122 Friday, September 10, 2004 Case Serial Number: 09/710948	From: David Holloway Location: EIC 2100 PK2-4B30 Phone: 308-7794 david.holloway@uspto.gov

Search Notes

Dear Examiner Tang,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David

ResponseHeader=Commercial Database Search Request

AccessDB#= __132166__

LogNumber= __40__

Searcher= _____

SearcherPhone= _____

SearcherBranch= _____

MyDate=Thu Sep 9 18:17:38 EDT 2004

submitto=STIC-EIC2100@uspto.gov

Name=James Tang

Empno=79879

Phone=305-4866

Artunit=2122

Office=5C18

Serialnum=09/710,948

Earliest=11/13/2000

OtherDate=

Format1=paper

Already1=USP

Docket JP920000282US1

Appl. No.: 09/710,948
Filed: November 13, 2000

APPENDIX "AA"

What is claimed is:

1. (previously presented) A method of identifying a global breakpoint for debugging computer software, said method including the steps of:

receiving a file name for an executable image file, wherein the executable image file is loaded in memory of a computer system and the global breakpoint is to be placed in the image for executing by the computer system;

receiving a symbol expression for a location in the executable image file where the global breakpoint is to be placed;

passing the symbol expression and the file name to a first operating system module running on the computer system;

receiving a file offset corresponding to the symbol location from the first operating system module;

passing the file name for the executable image file to a second operating system module;

receiving a file identifier from the second operating system module, wherein the file identifier is used by the operating system for uniquely identifying the executable file in the computer system memory; and

representing said global breakpoint in code of said software using the received file identifier of the executable image file and the received offset in said executable file.

2. (original) The method according to claim 1, wherein said file identifier is a file name.

3. (previously presented) The method according to claim 1, wherein said file identifier is an inode of a Unix operating system.

4. (original) The method according to claim 1, wherein said file identifier is a file control block of a non-Unix operating system.

5. (original) The method according to claim 1, further including the step of resolving a virtual address of said code to said file identifier and said offset.

Already2=DWPI

Already3=EPO

Already10=

FFYes=Yes

Searchtopic=Use of operating system modules to determine actual memory locations for instruction of an executable image loaded in a target computer system and inserting these location in the executable image.

Comments=

send=SEND

```
Set       Items     Description
S1       342941     OPERATING()SYSTEM OR OS OR KERNEL OR OS2 OR LINUX OR UNIX
S2        56439     DEBUG? OR DE()(BUGGER OR BUGGING OR BUG OR BUGS) OR BREAKP-
                    OINT OR EMULATOR?
S3           67     EXECUTABLE()IMAGE?
S4      5195812     EMBED? OR WITHIN OR INTEGRAT? OR INTEGRAL OR BUILT()"IN"
S5           14     (GLOBAL OR UNIVERSAL)(N)(BREAKPOINT? OR BREAK()POINT? ?)
S6           14     S1 AND S3
S7          759     S2(N)S4
S8           43     S1 AND S7
S9           71     S8 OR S6 OR S5
S10          64     RD (unique items)
S11          56     S10 NOT PY>2000
S12          56     S11 NOT PD>20001113
File     8:Ei Compendex(R) 1970-2004/Aug W5
            (c) 2004 Elsevier Eng.  Info. Inc.
File    35:Dissertation Abs Online 1861-2004/Aug
            (c) 2004 ProQuest Info&Learning
File   202:Info. Sci. & Tech. Abs. 1966-2004/Sep 09
            (c) 2004 EBSCO Publishing
File    65:Inside Conferences 1993-2004/Sep W1
            (c) 2004 BLDSC all rts. reserv.
File     2:INSPEC 1969-2004/Aug W5
            (c) 2004 Institution of Electrical Engineers
File    94:JICST-EPlus 1985-2004/Aug W2
            (c)2004 Japan Science and Tech Corp(JST)
File   111:TGG Natl.Newspaper Index(SM) 1979-2004/Sep 10
            (c) 2004 The Gale Group
File   233:Internet & Personal Comp. Abs. 1981-2003/Sep
            (c) 2003 EBSCO Pub.
File     6:NTIS 1964-2004/Aug W4
            (c) 2004 NTIS, Intl Cpyrght All Rights Res
File   144:Pascal 1973-2004/Aug W5
            (c) 2004 INIST/CNRS
File   434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
            (c) 1998 Inst for Sci Info
File    34:SciSearch(R) Cited Ref Sci 1990-2004/Sep W1
            (c) 2004 Inst for Sci Info
File    62:SPIN(R) 1975-2004/Jul W2
            (c) 2004 American Institute of Physics
File    99:Wilson Appl. Sci & Tech Abs 1983-2004/Aug
            (c) 2004 The HW Wilson Co.
File    95:TEME-Technology & Management 1989-2004/Jun W1
            (c) 2004 FIZ TECHNIK
```

12/5/1   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

04823134   E.I. No: EIP97093836950
   Title: Implementation of checkpoints mechanism in PVM parallel Debugging
environment
   Author: Huang, Ning; Jin, Maozhong; Ma, Wenbin
   Corporate Source: Beijing Univ of Aeronautics and Astronautics, Beijing,
China
   Source: Beijing Hangkong Hangtian Daxue Xuebao/Journal of Beijing
University of Aeronautics and Astronautics v 23 n 1 Feb 1997. p 93-97
   Publication Year: 1997
   CODEN: BHHDE8   ISSN: 1001-5965
   Language: Chinese
   Document Type: JA; (Journal Article)   Treatment: T; (Theoretical)
   Journal Announcement: 9711W2
   Abstract: A checkpoint mechanism is studied which is used widely in
process migrating, load balancing and fault tolerance in parallel programs.
An implementation of the checkpoint mechanism in a parallel debugger which
uses **global   break - points** to ensure the consistence of checkpoints is
presented, and the implementation method in PVM environment is discussed,
in order to provide a method to debug PVM parallel programs quickly and
conveniently. (Edited author abstract) 3 Refs.
   Descriptors: *Computer debugging; Fault tolerant computer systems;
Parallel processing systems; Computer programming
   Identifiers: Checkpoints; Parallel virtual machines
   Classification Codes:
   723.1 (Computer Programming); 722.4 (Digital Computers & Systems)
   723 (Computer Software); 722 (Computer Hardware)
   72 (COMPUTERS & DATA PROCESSING)

04431423   E.I. No: EIP96063221389
  Title: Event and state-based debugging in TAU: a prototype
  Author: Shende, Sameer; Cuny, Janice; Hansen, Lars; Kundu, Joydip;
McLaughry, Stephen; Wolf, Odile
  Corporate Source: Univ of Oregon, Eugene, OR, USA
  Conference Title: Proceedings of the SPDT'96: SIGMETRICS Symposium on
Parallel and Distributed Tools
  Conference Location: Philadelphia, PA, USA Conference Date:
19960522-19960523
  Sponsor: ACM
  E.I. Conference No.: 44815
  Source: Proceedings of the SPDT: SIGMETRICS Symposium on Parallel and
Distributed Tools 1996. ACM, New York, NY, USA. p 21-30
  Publication Year: 1996
  CODEN: 002380
  Language: English
  Document Type: CA; (Conference Article)   Treatment: G; (General Review);
T; (Theoretical)
  Journal Announcement: 9608W3
  Abstract: Parallel programs are complex and often require a multilevel
debugging strategy that combines both event- and state-based debugging. We
report here on preliminary work that combines these approaches within the
TAU program analysis environment for pC plus plus . This work extends the
use of event-based modeling to object-parallel languages, provides an
alternative mechanism for establishing meaningful **global breakpoints** in
object-oriented languages, introduces the TAU program interaction and
control infrastructure, and provides an environment for the assessment of
mixed event- and state-based strategies. (Author abstract) 23 Refs.
  Descriptors: *Program debugging; Software prototyping; Computer
simulation; Object oriented programming; Codes (symbols); Coding errors;
Visualization
  Identifiers: Parallel program; Ariadne debugger
  Classification Codes:
  723.1 (Computer Programming); 723.5 (Computer Applications); 723.2
(Data Processing)
  723 (Computer Software)
  72 (COMPUTERS & DATA PROCESSING)

00210435   90CP02-003
**Advanced   debugging   techniques Employ these sophisticated strategies to
reduce debugging time**
   Intersimone, David
   Computer Language , February 1, 1990 , v7 n2 p59-67, 7 Pages
   ISSN: 0749-2839
   Languages: English
   Document Type: Feature Articles and News
   C program
   Geographic Location: United States

   Presents   several   advanced debugging techniques   which   locate   bugs
quickly. Discusses the use of code patch to test fix, **global   breakpoints**
, conditional **global   breakpoints** , instrumenting code, and complex break
conditions. Includes six program listings. (jb)
   Descriptors: Debugging;   Strategy;   Bugs;   Programming   Instruction;
 Program Listing

o

1219094 H.W. WILSON RECORD NUMBER: BAST95014553
 Debugging   embedded **software**
Cipriani, Dave;
Electronic Design v. 43 (Jan. 23 '95) p. 103-4+
DOCUMENT TYPE: Feature Article ISSN: 0013-4872 LANGUAGE: English
RECORD STATUS: New record

ABSTRACT: Part of a special section on engineering software for software
design engineers. A cost-effective environment for debugging can be
created by matching the correct tools with the job. The cornerstone of the
software-development environment is the source-level debugger. A
developer's window into the target system, the debugger offers an
abstracted view of program execution. The debugger's minimum requirements
include the ability to load code, monitor variables, alter memory using
symbolic names and high-level expressions, display source code, and set
breakpoints. **Debuggers   integrated** with an **operating   system** have
knowledge of the **operating - system** data structures, enabling the
engineer to monitor when tasks are entered and exited. Choosing a debugger
that can control different execution vehicles provides a consistent
interface throughout product development. The advantages and disadvantages
of debugging tools such as simulators, full-featured emulators, N-wire
emulators, logic analyzers, and ROM monitors are considered.

DESCRIPTORS: Emulators (Computers); Software development--Costs; Debug
  tools (Computer programs);

DIALOG(R)File 95:TEME-Technology & Management

00586240 E92073284010
Specification and detection of global   breakpoints **in distributed**
systems
(Spezifikation und Feststellung globaler Breakpoints in verteilten Systemen
)
Haban, D; Zhou, S; Maurer, D; Wilhelm, R
Univ. des Saarlandes, Saarbruecken, D
1991
Document type: Report Language: English
Record type: Abstract

ABSTRACT:
Writing and debugging asynchronous parallel programs is a painful
experience. Verification methods are even less developed and of less
practical use than in the sequential case. Static analyzers and dynamic
debuggers for, such programs are rare. Setting breakpoints are important
features of any debugging system. The authors will refer to these
breakpoints as **global   breakpoints** . Due to the inherent features of
distributed systems, these systems are characterized by lack of adequate
central control, precise global time and accurate global state. Thus,
specification of **global   breakpoints** , their detection and finally
halting the distributed system in a meaningful global state are major
problems. They propose a specification language for **global   breakpoints**
and describe its logical semantics. The formal model of a detection
mechanisms and its implementation are given and solutions to the halting of
distributed systems are discussed. The distributed debugging system has
been implemented and successfully used to debug distributed programs
running on six M68000 computers.

DESCRIPTORS: PARALLEL PROGRAMMING; PROGRAM DEVELOPMENT; PROGRAM
VERIFICATION; COMPUTER ARCHITECTURE; PROCESSORS; PARALLEL PROCESSORS; TEST
AID PROGRAM
IDENTIFIERS: Parallelprogrammierung; Debugger; Breakpoint

```
Set      Items    Description
S1       37034    OPERATING()SYSTEM OR OS OR KERNEL OR OS2 OR LINUX OR UNIX
S2       11924    DEBUG? OR DE()(BUGGER OR BUGGING OR BUG OR BUGS) OR BREAKP-
                  OINT OR EMULATOR?
S3          36    EXECUTABLE()IMAGE?
S4     1791609    EMBED? OR WITHIN OR INTEGRAT? OR INTEGRAL OR BUILT()"IN"
S5           2    (GLOBAL OR UNIVERSAL)(N)(BREAKPOINT? OR BREAK()POINT? ?)
S6        1205    1 AND S2 AND S4
S7           4    S1 AND (S3 OR S5)
S8          19    S2(2N)S4 AND S1
S9          23    S7 OR S8
S10         24    S9 OR S5
S11         24    IDPAT (sorted in duplicate/non-duplicate order)
S12         23    IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/May(Updated 040903)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200457
         (c) 2004  Thomson Derwent
```

DIALOG(R)File 350:Derwent WPIX
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014736446   **Image available**
WPI Acc No: 2002-557150/200259
XRPX Acc No: N02-441058
   Global   breakpoint **insertion method for debugging software, involves
 detecting private copy of page after reading from memory and inserting**
   global   breakpoint **in detected private copy**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC   )
Inventor: BHATTACHARYA S; KRISHNAMOORTHY A; SANGAVARAPU V K
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020073402	A1	20020613	US 2000732342	A	20001207	200259	B

Priority Applications (No Type Date): US 2000732342 A 20001207
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020073402	A1		13	G06F-009/44	

Abstract (Basic): US 20020073402 A1
      NOVELTY - A global   breakpoint is inserted in a page containing
 software code after reading the page in a memory. The global
 breakpoint is inserted in the detected private copy of the page.

Date
N6

      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
 following:
      (1) Computer-implemented apparatus for inserting global
 breakpoint ;
      (2) Computer program product for inserting global   breakpoints ;
      (3) Global   breakpoint removal method;
      (4) Computer-implemented apparatus for removing global
 breakpoint ; and
      (5) Computer program product of removing global   breakpoint .
      USE - For debugging computer software in operating   system such
 as Linux e.g. SUN, HP and AIX for computer system, connected to LAN,
 WAN, Internet, intranet.
      ADVANTAGE - Enables handling elegantly, consistently and seamlessly
 of the problem of inserting and removing global   breakpoints with
 minimum overhead, hence facilitates the OS to maintain sufficient
 information effectively.
      DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
 the operating   system .
      pp; 13 DwgNo 1/3
Title Terms: GLOBE; INSERT; METHOD; DEBUG; SOFTWARE; DETECT; PRIVATE; COPY;
  PAGE; AFTER; READ; MEMORY; INSERT; GLOBE; DETECT; PRIVATE; COPY
Derwent Class: T01
International Patent Class (Main): G06F-009/44
File Segment: EPI

010064945   **Image available**
WPI Acc No: 1994-332656/199441
XRPX Acc No: N94-261196
   Computer system having integrated **source level** debugging **functions -
   has system management handler executing resume instruction to continue
   execution with interrupted program upon exiting** integrated   debugger
Patent Assignee: INTEL CORP (ITLC)
Inventor: YUEN D
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5357628	A	19941018	US 92858301	A	19920325	199441	B
			US 93138894	A	19931019		

Priority Applications (No Type Date): US 92858301 A 19920325; US 93138894 A
   19931019
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5357628	A		7	G06F-011/00	Cont of application US 92858301

Abstract (Basic): US 5357628 A
      Debugging is performed under SMM with the **integrated   debugger**
   which is stored with the SMI handler in the SMRAM and given control
   after the SMI handler has gotten control and determined in its initial
   processing that the SMI handler has gotten control as a result of a SMI
   triggered by a debugging request.
      The SMI handler gets control after the computer system is put into
   SMM in response to the SMI. Upon exiting the **integrated   debugger** ,
   the SMI handler executes the RSM instruction to continue execution with
   the interrupted program.
      ADVANTAGE - Debugging may be performed with the actual hardware in
   its normal operating speed, and yet debugging functions and usability
   matching or exceeding that of a software emulator may be provided.
   Additionally, debugging may be performed in a manner that is
   transparent to the **operating   system** and the application programs.
      Dwg.2/2
Title Terms: COMPUTER; SYSTEM; INTEGRATE; SOURCE; LEVEL; DEBUG; FUNCTION;
   SYSTEM; MANAGEMENT; HANDLE; EXECUTE; RESUME; INSTRUCTION; CONTINUE;
   EXECUTE; INTERRUPT; PROGRAM; EXIT; INTEGRATE
Derwent Class: T01
International Patent Class (Main): G06F-011/00
File Segment: EPI

12/5/21   (Item 21 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

06513647   **Image available**
METHOD FOR DEBUGGING DEVICE DRIVER

PUB. NO.:   2000-099364 [JP 2000099364 A]
PUBLISHED: April 07, 2000 (20000407)
INVENTOR(s):   NOGUCHI SEIJI
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD
APPL. NO.:   10-283267 [JP 98283267]
FILED: September 18, 1998 (19980918)
INTL CLASS: G06F-011/28

ABSTRACT

PROBLEM TO BE SOLVED: To enable debugging without preparing any dedicated
debugging object device driver and changing any internal code by monitoring
a request packet to be dispatched from an **operating system** (**OS**) to the
debugging object device driver and controlling the output of input/output
data.

SOLUTION: When a computer is activated, an **OS** 4 and a debugging object
device driver 6 are integrated onto an internal RAM 2. Next, a device
driver 5 for **debugging** is **integrated** onto the RAM 2 and during that
integrating processing, processing is performed for hooking the entry
routine of the debugging object device driver 6. Then, this method uses a
device driver 5 for debugging provided with a method for controlling the
output of output data by monitoring the request packet to be dispatched
from the **OS** 4 to the debugging object device driver 6.

DIALOG(R)File 350:Derwent WPIX

015572611   **Image available**
WPI Acc No: 2003-634768/200360
XRPX Acc No: N03-504820
  **Java application debugging method in corporate network, internet,
  involves debugging Java code and native language dynamic load libraries
  simultaneously using different application programming interfaces**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC   )
Inventor: EVANS D H; GAY C J; SCHERK A P
Number of Countries: 001   Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020129337	A1	20020912	US 2001801589	A	20010308	200360	B

Priority Applications (No Type Date): US 2001801589 A 20010308
Patent Details:

Patent No	Kind Lan Pg	Main IPC	Filing Notes
US 20020129337	A1 25	G06F-009/44	

Abstract (Basic): US 20020129337 A1
        NOVELTY - The Java code and native language dynamic load libraries
  of application (17) are simultaneously debugged using Java platform
  debugger architecture virtual machine debug application programming
  interface (API) and **operating   system** debug API, respectively, while
  executing application under Java virtual machine (16).
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following:
        (1) computer readable medium storing application debugging program;
  and
        (2) computer.
        USE - For debugging Java application comprising Java code and
  native language dynamic load libraries e.g. C or C++ code, using
  computer software development tools for development of Java application
  program for use in corporate network and internet.
        ADVANTAGE - Provides new functionality such as patching of Java
  variables, reading and writing strings from and to application under
  test and stability for JAVA application program development, testing
  and debugging.
        DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
  the **debugger** system **within** single computer system.
        graphical user interface (11)
        engine (12)
        Java virtual machine (16)
        application(41) interactive code analysis tool probe (17)
        pp; 25 DwgNo 1/15
Title Terms: APPLY; DEBUG; METHOD; NETWORK; DEBUG; CODE; NATIVE; LANGUAGE;
  DYNAMIC; LOAD; SIMULTANEOUS; APPLY; PROGRAM; INTERFACE
Derwent Class: T01
International Patent Class (Main): G06F-009/44
File Segment: EPI

```
Set      Items    Description
S1       37034    OPERATING()SYSTEM OR OS OR KERNEL OR OS2 OR LINUX OR UNIX
S2       11924    DEBUG? OR DE()(BUGGER OR BUGGING OR BUG OR BUGS) OR BREAKP-
                  OINT OR EMULATOR?
S3       36       EXECUTABLE()IMAGE?
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S7       4        S1 AND (S3 OR S5)
S8       19       S2(2N)S4 AND S1
S9       23       S7 OR S8
S10      24       S9 OR S5
S11      24       IDPAT (sorted in duplicate/non-duplicate order)
S12      23       IDPAT (primary/non-duplicate records only)
S13      14       AU=(KRISHNA S, OR KRISHNA S?)
S14      5        AU=(SONI M? OR SONI, M?)
S15      90       AU=BHATTACHARYA S?
S16      1        S15 AND S1
S17      86855    MC=(T01-F05G OR T01-J20C OR T01-S03)
S18      224      S17 AND S6
S19      23       S1 AND S2 AND S4 AND S17
S20      15       S19 NOT S11
File 347:JAPIO Nov 1976-2004/May(Updated 040903)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200457
         (c) 2004  Thomson Derwent
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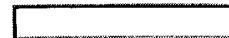
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search tips   [Search]

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Use AND, OR, NOT to separate keywords

0 results found

Back to Index _

```
Set      Items    Description
S1          3     GLOBAL()BREAKPOINT AND EXECUT?()IMAGE?
File 654:US Pat.Full. 1976-2004/Sep 09
         (c) Format only 2004 The Dialog Corp.
```

1/TI/1

Communications system using rings architecture

1/TI/2

Method for inserting global breakpoints

1/TI/3

Superscalar microprocessor employing away prediction structure

```
  *** DIALINDEX search results display in an abbreviated ***
  *** format unless you enter the SET DETAIL ON command. ***
  ?set files all
     You have 558 files in your file list.
     (To see banners, use SHOW FILES command)
  ?s global()breakpoint and execut?()image?

  Your SELECT statement is:
     s global()breakpoint and execut?()image?

            Items   File
            -----   ----
        Examined  50 files
        Examined 100 files
        Examined 150 files
        Examined 200 files
        Examined 250 files
        Examined 300 files
        Examined 350 files
        Examined 400 files
              3   654: US Pat.Full._1976-2004/Sep 09
        Examined 450 files
        Examined 500 files
        Examined 550 files

     1 file has one or more items; file list includes 558 files.
     One or more terms were invalid in 2 files.
```